



SPYWOLF

Security Audit Report



Completed on
November 23, 2022

MADE IN USA 

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **BABYX** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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BABYX



PROJECT DESCRIPTION

According to their whitepaper:

BABYX is a reward token with tax 9% with unusual mechanics, which was built specifically for the community and fully managed by it, having unique utilities properties and features, and is also a utility token of the NFT game.

Release Date: Presale starts in November 25, 2022

Category: Reward token / P2E

01



CONTRACT INFO

Token Name

BABYX

Symbol

BABYX

Contract Address

0xB5cC7351D94007fC4F6dfee837c35cac10EbF956

Network

Binance Smart Chain

Language

Solidity

Deployment Date

Nov 22, 2022

Verified?

Yes

Total Supply

2,000,000

Status

Not launched

TAXES

Buy Tax

9%

Sell Tax

9%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of November 23, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
No limit

DEX
PancakeSwap

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	8
Uniq Senders	2
Uniq Receivers	3
Total Amount	4000000 BABYX
Median Transfer Amount	241000 BABYX
Average Transfer Amount	500000 BABYX
First transfer date	2022-11-22
Last transfer date	2022-11-22
Days token transferred	1

SMART CONTRACT STATS

Calls Count	31
External calls	8
Internal calls	23
Transactions count	16
Uniq Callers	5
Days contract called	1
Last transaction time	2022-11-22 23:30:44 UTC
Created	2022-11-22 19:26:11 UTC
Create TX	0xd41cf2701384e7d7992892842bdf33be0da aef48cle2ca0a237079e6266c5213
Creator	0xe12205430ee84cd3ab15712a901eafb1a388 dee8



FEATURED WALLETS

Owner address	0xe12205430ee84cd3ab15712a901eafb1a388dee8
Marketing wallet	0x852ac11295e76f288f0331fa14b915373844c748
Influence wallet	Same as marketing
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Medium Risk

Owner can set buy and sell taxes up to 24%.
Combined buy+sell=48%.

```
function setBuyRewardsTaxes(uint64 _rewards) external onlyOwner {
    _setBuyTaxes(_rewards, buyTaxes.marketing, buyTaxes.buyback, buyTaxes.lp);
}
function setBuyMarketingTaxes(uint64 _marketing) external onlyOwner {
    _setBuyTaxes(buyTaxes.rewards, _marketing, buyTaxes.buyback, buyTaxes.lp);
}
function setBuyBuyBackTaxes(uint64 _buyback) external onlyOwner {
    _setBuyTaxes(buyTaxes.rewards, buyTaxes.marketing, _buyback, buyTaxes.lp);
}
function setBuyLpTaxes(uint64 _lp) external onlyOwner {
    _setBuyTaxes(buyTaxes.rewards, buyTaxes.marketing, buyTaxes.buyback, _lp);
}
function _setBuyTaxes(uint64 _rewards, uint64 _marketing, uint64 _buyback, uint64 _lp) internal {
    buyTaxes = Taxes(_rewards, _marketing, _buyback, _lp);
    totalBuyTax = _rewards + _marketing + _buyback + _lp;
    require(totalBuyTax < 25, 'Taxes must be lower than 25%');
}

function setSellRewardsTaxes(uint64 _rewards) external onlyOwner {
    _setSellTaxes(_rewards, sellTaxes.marketing, sellTaxes.buyback, sellTaxes.lp);
}
function setSellMarketingTaxes(uint64 _marketing) external onlyOwner {
    _setSellTaxes(sellTaxes.rewards, _marketing, sellTaxes.buyback, sellTaxes.lp);
}
function setSellBuyBackTaxes(uint64 _buyback) external onlyOwner {
    _setSellTaxes(sellTaxes.rewards, sellTaxes.marketing, _buyback, sellTaxes.lp);
}
function setSellLpTaxes(uint64 _lp) external onlyOwner {
    _setSellTaxes(sellTaxes.rewards, sellTaxes.marketing, sellTaxes.buyback, _lp);
}
function _setSellTaxes(uint64 _rewards, uint64 _marketing, uint64 _buyback, uint64 _lp) internal {
    sellTaxes = Taxes(_rewards, _marketing, _buyback, _lp);
    totalSellTax = _rewards + _marketing + _buyback + _lp;
    require(totalSellTax < 25, 'Taxes must be lower than 25%');
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell taxes combined not to exceed 25%.



FOUND THREATS

⚠ Medium Risk

autoDistribute() is used in _transfer() function and declared as public.

```
function autoDistribute(uint256 gasAvailable) public {
    uint256 size = eligibleUsers.length;
    if (size == 0) return;

    uint256 gasSpent = 0;
    uint256 gasLeft = gasleft();
    uint256 lastIndex = currentIndex;
    uint256 iterations = 0;

    while (gasSpent < gasAvailable && iterations < size) {
        if (lastIndex >= size) {
            lastIndex = 0;
        }
        address account = eligibleUsers[lastIndex];
        if (lastClaimTime[account] + claimDelay < block.timestamp) {
            _processAccount(account);
        }
        lastIndex++;
        iterations++;
        gasSpent += gasLeft - gasleft();
        gasLeft = gasleft();
    }

    currentIndex = lastIndex;
}
```

- Recommendation:
 - Considered as good practice is to restrict the scope of functions that process many accounts in once to private/internal (must be internal in this exact scenario).



Informational

Owner can change the reward token.

```
function setRewardToken(address newToken) external onlyOwner {
    super._setRewardToken(newToken);
}

function _setRewardToken(address newToken) internal {
    rewardToken = newToken;
}
```

Owner can change minimum holdings requirements to receive rewards.

```
function setMinBalanceForRewards(uint256 minBalance) external onlyOwner {
    minBalanceForRewards = minBalance * 10 ** 18;
}
```

Owner can exclude address from fees.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    _isExcludedFromFees[account] = excluded;
    emit ExcludeFromFees(account, excluded);
}

function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for (uint256 i; i < accounts.length; i++) _isExcludedFromFees[accounts[i]] = excluded;
    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```



Informational

Owner can turn on/off auto burn from each transaction (3% added as tax).

```
function setBurnX(bool value) external onlyOwner {
    burnX = value;
}

function _transfer(address from, address to, uint256 amount) internal override {
    .....
    if (burnX) {
        burnAmt = (amount * 3) / 100;
        super._burn(from, burnAmt);
    } else {
        burnAmt = 0;
    }
    .....
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

BABYX

GOOD PRACTICES FOUND

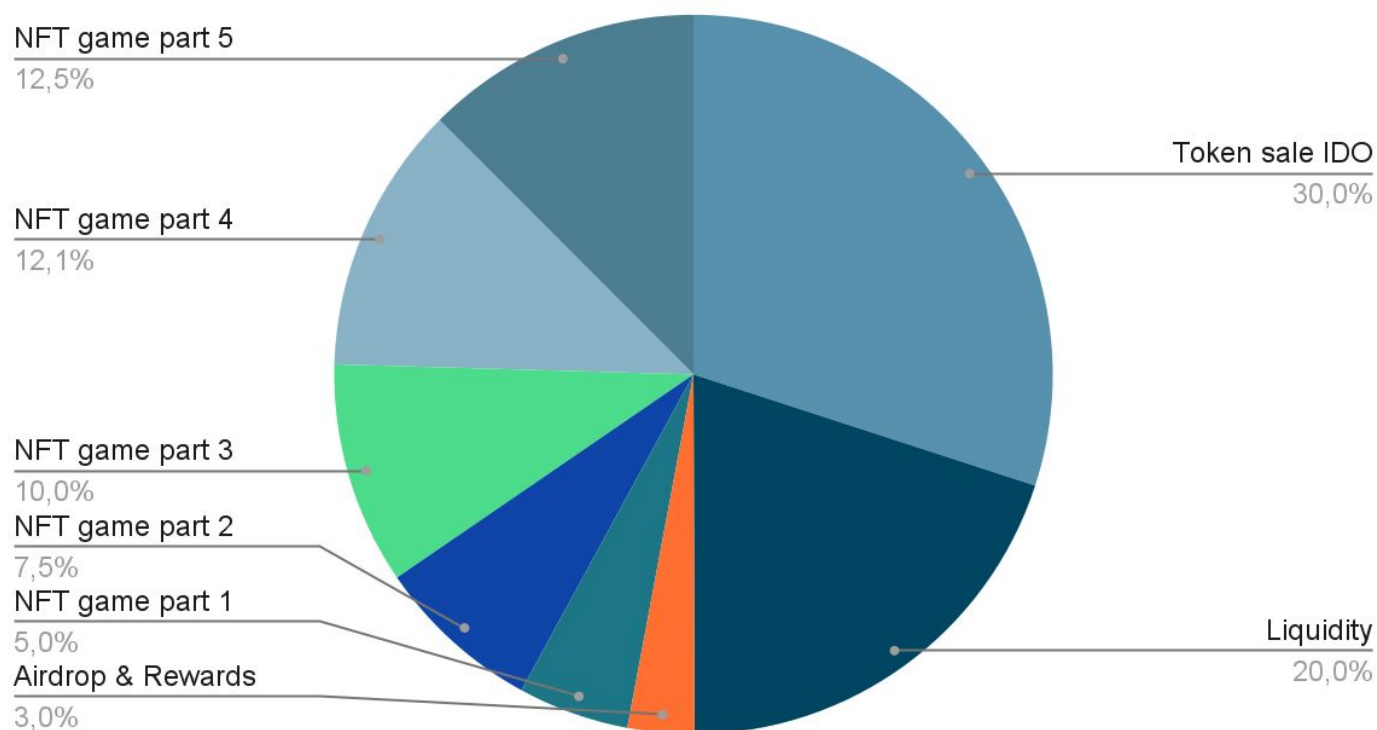
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a transaction limit



*The following tokenomics are based on the project's whitepaper and/or website:

- 30% - Token sale IDO
- 19.95% - Liquidity
- 3% - Airdrop & rewards
- 5% - NFT game part 1
- 7.5% - NFT game part 2
- 10% - NFT game part 3
- 12.05% - NFT game part 4
- 12.5% - NFT game part 5

Tokens distribution



TOKENOMICS



THE TEAM

! The team is
anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL
<https://babyx.cash/>

Domain Registry
<https://www.mastername.ru>

Domain Expiration
Expires on 2023-11-14

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

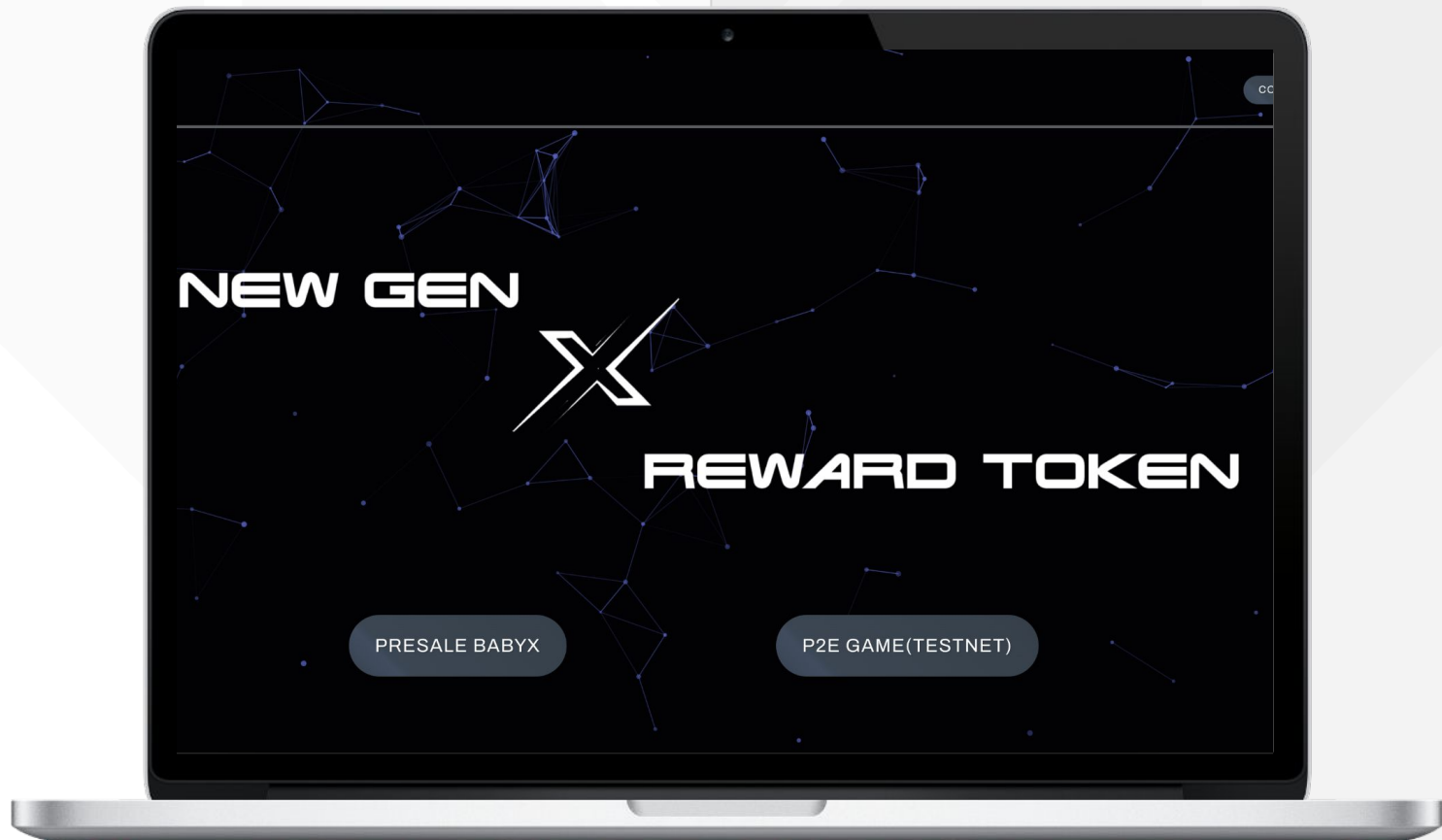
Design
Nice design, appropriate color scheme and graphics.

Content
The information partly helps new investors understand what the product does, because it is confusing in some parts.

Whitepaper
⚠ No whitepaper

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes



babyx.cash

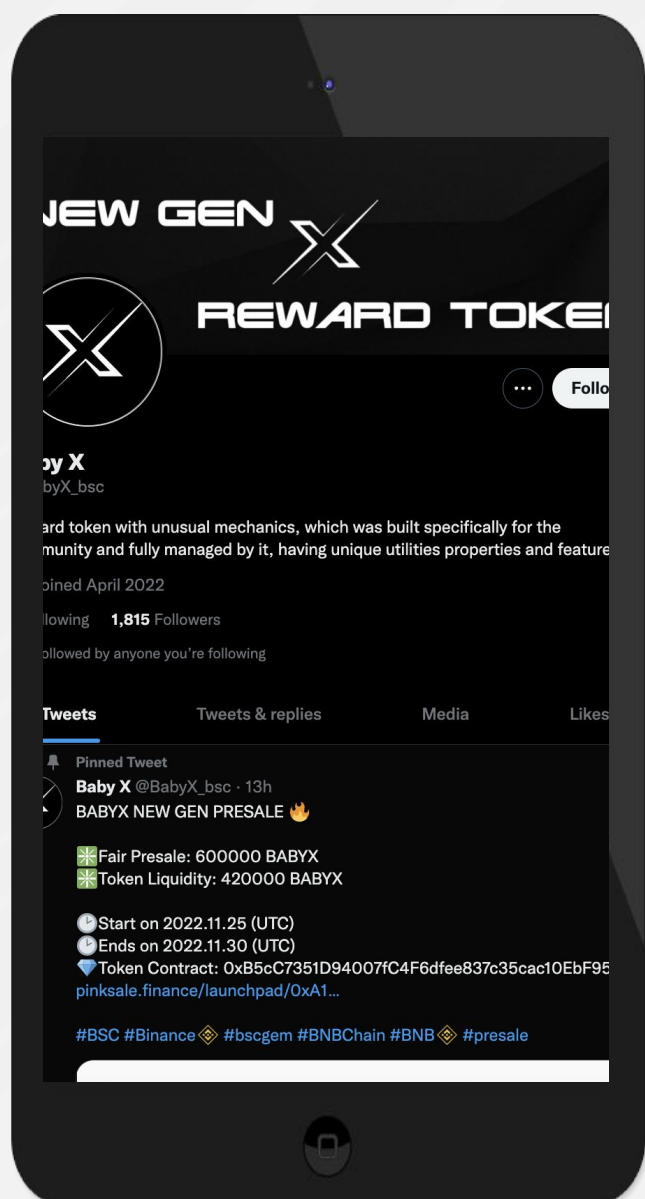


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media activity is low with little organic interaction from users



Twitter

@BabyX_bsc

- 1 816 followers, botted ⚠️
- Not active, 1 post total ⚠️



Discord

<https://discord.com/invite/babyx>

- 21 members
- 3 active members



Telegram

@babyxeng

- 344 members
- Channel without chat, with only 1 post ⚠️



Medium

- Not available



SPYWOLF

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Audits | KYCs | dApps
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ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.